INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26 (DOUBLE STARS)

INFORMATION CIRCULAR No. 151 (OCTOBER 2003)

NEW ORBITS										
$\mathbf{ADS} \\ \alpha 2000 \delta$	Name n	P a	T i	\mathbf{e} ω	$\Omega(2000)$ Last ob.		${f Author(s)}$			
17180 00024+1047	A 1249 2°7751	$129^{y}72$ $0''366$				131°0 0″046 112.4 0.055	ZIRM			
51 00055+3406	HU 1201 7.6505	47.06 0.138	1983.89 91.5		128.1 1998.7798	307.7 0.216 307.6 0.216	ZIRM			
2044 02405-2408	SEE 19 1.6936	212.56 0.523	2027.22 112.3		177.1 1996.8954	271.3 0.207 269.4 0.201	LING			
06579-4417	LPM 248 1.2067	298.34 4.396	1978.30 107.9		39.9 1993.9824	283.7 1.136 278.7 1.194	ZIRM			
6999 08474-1703	BU 586 0.3741	962.25 0.919	1992.91 65.2		71.4 1996.8666	200.4 0.160 204.0 0.168	MANTE			
10465-6416	FIN 364 10.0446	35.84 0.145	1989.18 106.0			124.0 0.149 123.2 0.155	MANTE			
9909 16044-1122	STF 1998 AB 7.8431	45.90 0.654	2043.12 33.3		27.0 2001.5619	330.3 0.557 335.7 0.624				
11640 18455+0530	FIN 332 Aa (I) 7.0644	50.96 0.165	1956.22 96.2		313.9 2001.5697		MASON & HARTKOPF			
11640 18455+0530	FIN 332 Aa (II) 13.3284	27.01 0.095	1994.46 105.6				MASON & HARTKOPF			
11640 18455+0530	FIN 332 Aa 6.2157	57.92 0.174	1992.88 98.8		131.5 1997.3945		OLEVIC & CVETKOVIC			
11640 18455+0530	FIN 332 Bb (I) 3.5950	100.14 0.170			140.5 2001.5697		MASON & HARTKOPF			

$\mathbf{ADS} \\ \alpha 2000 \delta$	Name n	P a	T i	f e	$\Omega(2000)$ Last ob.	$2003 \\ 2004$	$\operatorname{Author}(s)$
11640	FIN 332 Bb (II)	34.49	1972.65	0.988	235.2	297.7 0.095	MASON &
18455+0530	10.4378	0.201	111.7	93.3	2001.5697	294.7 0.083	HARTKOPF
11640	FIN 332 Bb	93.92	1972.23	0.242	140.3	117.8 0.109	OLEVIC &
18455+0530	3.8330	0.163	105.3	278.6	1997.3945	115.5 0.103	CVETKOVIC
	WOR 9	210.09	1937.47	0.150	154.3	279.4 0.564	ZIRM
20302+2651	1.7136	1.421	108.0	130.8	1996.626	275.9 0.547	
	FIN 336	43.48	1972.28	0.593	170.3	127.7 0.123	OLEVIC &
20311-1503	8.2803	0.124	55.1	96.1	1996.5320	131.5 0.123	CVETKOVIC
	MCA 62 Aa	56.41	1974.08	0.104	93.6	271.8 0.133	OLEVIC &
20410+3905	6.3818	0.134	86.2	330.7	1988.6631	272.2 0.139	CVETKOVIC
	LDS $720~\mathrm{BC}$	209.	2082.	0.256	50.	173.1 3.012	HARTKOPF
20452-3120	1.7225	3.18	137.	36.	1991.46	171.8 2.984	& MASON (x)
14424	$\mathrm{BU}\ 367\ \mathrm{AB}$	99.99	1934.17	0.256	118.5	141.5 0.33	SCARDIA
20550+2805	3.6002	0.407	68.5	185.0	2001.707	143.6 0.31	et al. (*)
14942	A 2288	105.66	1949.52	0.623	130.2	235.4 0.31	SCARDIA
21243+0343	3.4071	0.294	130.0	79.4	1995.574	233.9 0.31	et al. (*)
	FIN 330 AB	20.75	1984.64	0.590	27.8	343.1 0.044	OLEVIC &
21477-3054	17.3488	0.096	114.5	179.3	1996.8240	287.9 0.025	CVETKOVIC
	HO 183	122.52	1972.22	0.944	27.9	223.9 2.079	ZIRM
22248+2233	2.9384	1.315	140.4	348.4	1996.87	223.6 2.109	

(*) SCARDIA, PRIEUR, KOECHLIN and ARISTIDI

⁽x) NOTE: LDS 720 (WDS 20452-3120) is a high common-proper-motion triple, comprised of an ~ 80 arcminute AB pair and a 3-4 arcsecond BC pair. Following up on a comment by F.M. Rica Romero (Spanish American League of Astron., Circ $\sharp 1$, 2001) orbital analysis of BC determined that several observations in the WDS attributed to it were actually of a similar binary located ~ 80 arcseconds south of LDS 720A. As the first measure of this pair appears to have been by Charles Worley in 1978, it has been designated WDS 20452-3122 = WOR 40.

Summary of Sydney Business Meeting

C.D. Scarfe

This is a short summary of the business meeting of Commission 26, which took place in the afternoon of July 18, 2003, during the recent IAU General Assembly in Sydney. It was chaired by the outgoing president, C. Scarfe, and was attended by the following: C. Allen, F. Arenou, R. Argyle, A. Boden, J. Davis, F. Fekel, W. Hartkopf, J. Kubát, J. Ling, B. Mason, T. Oswalt, T. Pauls, D. Pourbaix, W. Tango, T. ten Brummelaar, A. Tokovinin, N. Turner, W. van Altena, E. Weis and H. Zinnecker. A more complete report will be published in the IAU Transactions, and a preprint of that report is available on the Commission's website.

C. Scarfe gave a report on events during the past triennium. He announced the deaths, during that period, of members N. Argue, E. Cabrita, M. Herrera, and K. Strand, as well as that of D. Zulevic during the previous triennium, and the meeting observed a few moments of silence in their memory.

Twenty new members have joined the Commission, bringing the total membership to 128, from 34 countries.

The chairman then reported on the recent election, in which just over half the membership voted. For the period 2003 to 2006, the president will be W. Hartkopf, and the vice-president, C. Allen. The OC will be made up of new members J. Davis, E. Oblak and T. Oswalt, along with continuing members F. Fekel, P. Lampens and J. Ling.

The chairman then gave a brief account of IAU Colloquium 191, held in Mérida, Yucatán, México in February 2003, and followed it with some remarks on other proposals for meetings, which had not been accepted by the Executive Committee. He concluded with some comments on the new rules for the conduct of Commission and Division operations.

- W. Hartkopf gave a short summary of developments at the Commission's website, and invited suggestions for further improvements. It is intended that the site's URL will remain http://ad.usno.navy.mil/wds/dsl.html#iau for the next three years at least.
- B. Mason spoke about Special Session 3 on a new classification scheme for double stars. That session had approved a resolution adopting the WDS scheme and encouraging completion of a complete catalogue by the Washington group. The Commission endorsed that resolution, and is currently setting up a Working Group to support that work.
- J. Ling discussed the history and current status of the Commission's Information Circulars, which were begun by P. Muller almost fifty years ago. They are now distributed electronically, and their contents are becoming increasingly diverse. They have ISSN number 1024-7769, and are listed as IAUDS on the NASA Astrophysics Data System. Several new directions for the Circulars were discussed.
- W. Hartkopf thanked C. Scarfe and the outgoing OC members for their efforts during the past three years, and then turned his attention to the next three. Some possible topics and sites for meetings were discussed, as well as future catalogues and a CDROM that would collect several of the latter together.

There followed several short reports on major new observing facilities and additions to established ones. J. Davis described recent observations with the Sydney University Stellar Interferometer (SUSI). T. ten Brummelaar outlined the approach to completion of the CHARA array on Mt. Wilson. T. Pauls spoke about recent developments at the Navy Prototype Optical Interferometer. Finally, H. Zinnecker pointed out that the first results had been obtained with the Very Large Telescope Interferometer.

Next came some short reports on new major catalogues. B. Mason reported a large increase in the size of the Washington Double star Catalog, and announced that a new CD version will shortly be available. W. Hartkopf described the rapid progress of the USNO CCD Astrographic Catalog and a project to re-scan the epoch-1930 plates of the AGK2 using modern equipment. Then D. Pourbaix spoke about the Base de données des étoiles doubles et multiples de Besançon, on behalf of E. Oblak, who was unable to attend. He also described his own work for Commission 30 on the Ninth Catalogue of Spectroscopic Binary Orbits, since it is also relevant to Commission 26.

- R. Argyle followed these talks with a discussion of amateur projects in double-star measurement, some of which are very substantial and of high quality.
- H. Zinnecker noted that some recently discovered giant planets are in orbit around components of binary stars, which raises the interesting question of the long-term stability of such planets' orbits.

A letter from P. Lampens was read. It expressed concern over the difficulty encountered by some double star observers in gaining access to telescopes to pursue long-term projects, and in getting data published in widely read journals, so that others may use them, even if it is premature to draw astrophysically useful conclusions from them. There was widespread agreement that these concerns affect many people, and the meeting agreed to include formal statements of concern in the published report. For details, please see the preprint on the Commission website.

The meeting was then adjourned.

ANNOUNCEMENT

A New Cassegrain telescope ($D=0.62~\mathrm{m}$; $F=6.2~\mathrm{m}$) has been installed at the Ramón María Aller Observatory. Among its main missions, double and multiple star research will occupy a prominent place.

J. A. Docobo Director R. M. Aller Observatory Universidade de Santiago de Compostela Spain *************************

The deadline for contributions to Information Circular No. 152 is:

February 15th 2004

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